

ABSTRACT

An optical device is formed of an array of micro-wedges where each micro-wedge is different in size and shape from adjacent micro-wedges. Each micro-wedge of the array directs light in a predetermined direction toward a particular sub-region of an angular pattern. The positions of the micro-wedges in the device may be essentially random with respect to the corresponding positions of the sub-regions. The device causes the output light to fill a large angular spread with homogenized light with clear boundaries and edges. The device employs refraction or reflection, and the device operates efficiently over a broad wavelength band.

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